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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,782	03/02/2000	Oliver Paul Leisten	20676-724	4570
7590	12/22/2003			EXAMINER
Gary Cary Ware & Freidenrich LLP 1221 South Mopac Expressway Austin, TX 78746			KIM, PAUL D	
			ART UNIT	PAPER NUMBER
			3729	19
DATE MAILED: 12/22/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/517,782	<b>Applicant(s)</b> LEISTEN ET AL.
	<b>Examiner</b> Paul D Kim	<b>Art Unit</b> 3729
	<i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i>	
<b>Period for Reply</b>		
<b>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</b>		
<ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>		
<b>Status</b>		
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>14 October 2003</u> .		
2a) <input checked="" type="checkbox"/> This action is <b>FINAL</b> .      2b) <input type="checkbox"/> This action is non-final.		
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
<b>Disposition of Claims</b>		
4) <input checked="" type="checkbox"/> Claim(s) <u>1-13 and 20-32</u> is/are pending in the application.		
4a) Of the above claim(s) _____ is/are withdrawn from consideration.		
5) <input checked="" type="checkbox"/> Claim(s) <u>5-9, 20-27 and 30</u> is/are allowed.		
6) <input checked="" type="checkbox"/> Claim(s) <u>1, 29, 31 and 32</u> is/are rejected.		
7) <input checked="" type="checkbox"/> Claim(s) <u>2-4, 10-13 and 28</u> is/are objected to.		
8) <input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.		
<b>Application Papers</b>		
9) <input type="checkbox"/> The specification is objected to by the Examiner.		
10) <input type="checkbox"/> The drawing(s) filed on _____ is/are: a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) <input type="checkbox"/> The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
<b>Priority under 35 U.S.C. §§ 119 and 120</b>		
12) <input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) <input type="checkbox"/> All b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of:		
1. <input type="checkbox"/> Certified copies of the priority documents have been received.		
2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____.		
3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
13) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.		
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.		
<b>Attachment(s)</b>		
1) <input type="checkbox"/> Notice of References Cited (PTO-892)		
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.		
4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____.		
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)		
6) <input type="checkbox"/> Other: _____.		

## DETAILED ACTION

This office action is a response to the amendment filed on 10/14/2003.

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1, 29, 31 and 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. As per claim 1 the limitation "removing conductive material from at least one of the tracks to increase the effective electrical length" recited in lines 4-5 of claim 1 and "removing conductive material from at least one of the tracks to increase the inductance of the track, to make the track electrically longer and thereby to bring the monitored parameter nearer to a predetermined value" recited in lines 4-6 of claim 32 were not described in the specification as originally filed and appears to be new matter. As per claims 29 and 30 the limitations "removing conductive material from at least one of the tracks to adjust...towards a phase different of 90<sup>0</sup>" recited in lines 2-4 also was not described in the specification as originally filed and appears to be new matter.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 29, 31 and 32 are, as best understood in view of the rejections under 112 first paragraphs, rejected under 35 U.S.C. 102(e) as being anticipated by Filipovic et al. (US PAT. 5,990,847).

Filipovic et al. teach a method of making a coupled multi-segment helical antenna comprising steps of tuning the frequencies of the antenna by adjusting or trimming the length of the radiator segments. (Col. 1, line 22 to col. 2, line 40 and col. 4, lines 52-59).

Filipovic et al. do not indicate whether the tuning process would increase the inductance. However, inherently, adjusting or trimming the length of the radiator segments as disclosed by Filipovic et al. would increase the inductance as the claimed invention because the trimming step is the same as removing conductive material from at least one the tracks to achieve the same result of increasing the inductance of the track.

As per claims 29 and 30 Filipovic et al. teach that the relative phase of signals in the radiating track is to provide the quadrature phase signals such as 0°, 90°, 180°, and 270° signals (col. 5, lines 14-20).

***Allowable Subject Matter***

1. Claims 2-4, 10-13 and 28 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
2. Claims 5-9, 20-27 and 30 are allowed.

***Response to Arguments***

3. Applicant's arguments filed 10/14/2003 have been fully considered but they are not persuasive. Applicant argues that prior art of record fails to disclose the claimed invention such as removing conductive material from at least one of the tracks to increase the effective electrical length. Examiner traverses the argument. Upon further consideration, however, to review the specification on page 10, lines 12-14 as indicated by the applicant, the interpretation of the limitation on page 7 of REMARK is not persuasive that how the limitation "electrically shorter than the optimum lengths at the required operating frequency" and "removing conductive material from at least one of the tracks to increase the inductance of the track, to make the track electrically longer" are meant to be that the removal of conductive material increases the electrical length. There is no such a description in the specification as originally filed and appears to be

new matter. When the telephone interview was conducted with Mr. Bruckner on 10/9/2003, examiner indicated that the limitation was not described in the specification.

***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-5648.

pdk



**A. DEXTER TUGBANG**  
**PRIMARY EXAMINER**